



V1.1

## **4K Low-light Module**

Specification

# LC220-CS-4K

## General Introduction

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LC220-CS-4K series were 4k low-light module that developed by Link-Card Tech. They use 12nm ASIC solution, equipped with a 3840x2160 resolution 50fps BSI CMOS sensor which has low illumination, low consumption and high sensitivity. The image processing unit uses quad core ARM+DSP Soc solution, which can meet the requirements of high-resolution and high-frame rate processing.

They support specific algorithms for low-light image processing and support H264/H265 CODEC. They also built-in GUI, brightness, contrast and sharpness are adjustable, integrated compass and motion sensor, built-in mass storage, supports recording and photography, and can be used in scope, handheld portable devices and etc fields.

## Features

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- ◆ BSI NIR CMOS sensor IMX678/IMX585
- ◆ Brightness, contrast and sharpness are adjustable
- ◆ Integrated Compass and Motion Sensor
- ◆ Supports Battery and USB Charge
- ◆ Integrated 4x GPIO Buttons and Rotary Encoder
- ◆ Reserved Laser Range Finder Connector
- ◆ Supports BOE 0.39, 1920x1080@50Hz OLED Panel
- ◆ Supports Wi-Fi and USB Flash Drive
- ◆ Built-in 64GB Memory, Supports photography and Recording
- ◆ Provides Android and IOS App

## Applications

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Scope, handheld portable devices

## Parameters

	Model	LC220-CS-4K	
<b>Detector</b>	Detector Type	BSI NIR CMOS	
	Detector Model	IMX678	IMX585
	Resolution	3840x2160	
	Optical Format	1/1.8	1/1.2
	Pixel Size	2µm	5.96µm
	Frame Rate	25Hz/50Hz	
	IOS	0.01 Lux	0.0001 Lux
<b>Image Adjustment</b>	Exposure Compensation	Supported	
	Image Mode	Day/Dusk/Night	Color
	Denoise	Contrast/Sharpness/Brightness	
<b>Main Function</b>	Wi-Fi+Recording and Capture	Supported	
	Motion Sensor+Compass+PIP	Supported	
	Reticle	On/Off/Adjust	
	Digital Continue Zoom	4.0~16.0×	
	Video Format	MP4	
	Picture Format	JPG	
	Storage	64G	
<b>Voltage Current</b>	Battery Voltage	4.2V/4.35V	
	Charging Current	500mA@5V	
	GPIO/TTL Voltage	3.3V	
	Power Supply	USB Charge/Battery	
	Battery	1S-Li(5H)	
<b>Connector</b>	Wi-Fi Antenna Connector	1 <sup>st</sup>	
	Panel Connector	BOE 0.39, 1920x1080@50Hz	
	Rotary Encoder	Supported	
	Battery Connector	Supported	
	USB Port	Supported	
	GPIO Buttons	Supported	
	Lens	M34 x 0.75	
<b>Physical Property</b>	Weight(No lens)	/	
	Dimension(No lens)	42 x 42 x 26 mm	
<b>Environment Adaptability</b>	Operating Temperature	-20°C~60°C	
	Storage Temperature	/	
	Humidity	/	

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